

ABSTRACT OF THE DISCLOSURE

Methods and apparatuses for the generation of visual effects according to the elapsed time for real time display. One embodiment of the present invention provides an automated mechanism for displaying visual effects (e.g., fade to or from a target color) through adjusting color correction parameters (e.g., the look up table for gamma correction) without disturbing display color calibration settings for the current display device. Time-based adjustments are made in small steps in the beginning and end and large steps in the middle of the transition to provide perceptually smooth transition effect. In one embodiment, a operating system resource is provided to manage, synchronously or asynchronously, the visual effect on behalf of requesting applications, simplifying the coding of the application programs and providing consistency across application programs. In one embodiment, the operating system resource uses a reservation system to prevent conflict and interference between application programs.